

B2 Glu-Leu (SEQ ID NO:38) located at the carboxy terminus where the oligomerization domain and the amino acid sequence X-Asp-Glu-Leu (SEQ ID NO:38) are recombinantly linked.

B3 16. (twice amended) The isolated nucleic acid of claim 14 where the oligomerization domain is a pentamerization domain.

B4 18. (twice amended) The isolated nucleic acid of claim 16 where the pentamerization domain is derived from a cartilage oligomeric matrix protein or a phospholamban protein.

Please add the following new claims.

--44. (new) The isolated nucleic acid of claim 18 where the pentamerization domain is selected from the group consisting of: SEQ ID NO:1, SEQ ID NO:2, and SEQ ID NO:7.

45. (new) The isolated nucleic acid of claim 14 where the oligomerization domain is a trimerization domain.

B5 46. (new) The isolated nucleic acid of claim 45 where the trimerization domain is derived from a thrombospondin protein.

47. (new) The isolated nucleic acid of claim 46 where the thrombospondin protein is TSP3 or TSP4.

48. (new) The isolated nucleic acid of claim 46 where the trimerization domain is selected from the group consisting of: SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, and SEQ ID NO:6.

49. (new) The isolated nucleic acid of claim 14 where X in the amino acid sequence X-Asp-Glu-Leu (SEQ ID NO:38) is selected from the group consisting of: Lys, His, and Asp.

50. (new) The isolated nucleic acid of claim 49 where X in the amino acid sequence X-Asp-Glu-Leu (SEQ ID NO:38) is Lys.

51. (new) The isolated nucleic acid of claim 14 where the KDEL receptor inhibitor protein is selected from the group consisting of: SEQ ID NO:13, SEQ ID NO:15, SEQ ID NO:17, SEQ ID NO:19, SEQ ID NO:21, SEQ ID NO:23, SEQ ID NO:25, SEQ ID NO:27, SEQ ID NO:29, and SEQ ID NO:34.

B5 52. (new) The isolated nucleic acid of claim 14 comprising a nucleotide sequence selected from the group consisting of: SEQ ID NO:14, SEQ ID NO:16, SEQ ID NO:18, SEQ ID NO:20, SEQ ID NO:22, SEQ ID NO:24, SEQ ID NO:26, SEQ ID NO:28, SEQ ID NO:30, and SEQ ID NO:35.

53. (new) The isolated nucleic acid of claim 14 further comprising a linker between the oligomerization domain and the amino acid sequence X-Asp-Glu-Leu (SEQ ID NO:38).

54. (new) A vector encoding a KDEL receptor inhibitor protein comprising an amino acid sequence selected from the group consisting of: SEQ ID NO:13, SEQ ID NO:15, SEQ ID NO:17, SEQ ID NO:19, SEQ ID NO:21, SEQ ID NO:23, SEQ ID NO:25, SEQ ID NO:27, SEQ ID NO:29, and SEQ ID NO:34.

55. (new) A vector comprising a nucleotide sequence selected from the group consisting of: SEQ ID NO:14, SEQ ID NO:16, SEQ ID NO:18, SEQ ID NO:20, SEQ ID NO:22, SEQ ID NO:24, SEQ ID NO:26, SEQ ID NO:28, SEQ ID NO:30, and SEQ ID NO:35.--